

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

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Claims 1-8 (Canceled).

Claim 9 (Previously Amended) A method of generating a basic dependency tree of a code object that does not take into consideration dependencies on triggers and on implementations of object oriented code objects, the method comprising:

querying a database catalog for direct dependencies of a code object and then for each dependency found, doing the query recursively until all basic dependencies are generated into a dependency tree.

Claim 10. (Previously Amended) The method of claim 9 further comprising using the generated dependency tree to compile code objects in debug mode as part of a database code object debugging tool.

Claim 11. (Previously Amended) The method of claim 9 further comprising using the generated dependency tree to identify calling paths in a database code coverage tool.

Claim 12. (Previously Amended) The method of claim 9 further comprising using the generated dependency tree to identify calling paths in a database code object profiling tool.

Claim 13. (Previously Amended) The method of claim 9 further comprising using the generated dependency tree in a database code object testing tool.

Claim 14. (Previously Amended) The method of claim 9 further comprising using the generated dependency tree to identify dependent objects that are INVALID in the database.

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- Claim 15. (Previously Amended) The method of claim 9 further comprising using the generated dependency tree to identify cyclic dependencies among database code objects.
- Claim 16. (Previously Amended) The method of claim 9 further comprising using the generated dependency tree in a dependency graph presentation tool.
- Claim 17. (Previously Amended) A method of generating dependency information including dependencies of code objects on database triggers, the method comprising:
- using a recursive algorithm for querying a database catalog for direct dependencies of a code object and then for each dependency found, doing the query recursively until all basic dependencies are generated into a dependency graph;
  - using a parser on each of the code objects in the dependency graph to identify DML statements that “fire” triggers so as to identify dependencies on triggers;
  - applying the recursive algorithm on each of the triggers to incorporate the dependencies of the triggers into the dependency graph; and
  - repeating steps 1-3 for incorporating dependencies on triggers and their dependencies until new dependencies are not added to the dependency graph.
- Claim 18. (Previously Amended) The method of claim 17 further comprising using the generated dependency information to identify calling paths in a database code coverage tool.
- Claim 19. (Previously Amended) The method of claim 17 further comprising using the generated dependency information to identify calling paths in a database code object profiling tool.

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- Claim 20. (Previously Amended) The method of claim 17 further comprising using the generated dependency information in a database code object testing tool.
- Claim 21. (Previously Amended) The method of claim 17 further comprising using the generated dependency information to identify dependent objects that are INVALID in the database.
- Claim 22. (Previously Amended) A method of generating dependencies of code objects as well as implementations of object oriented code objects in a database, the method comprising:
- applying a recursive algorithm that queries a database for dependency information and outputs a direct dependency graph of a database code object, the “direct dependency graph” containing dependencies that do not involve dependencies on triggers and on implementations of object oriented code objects in the database;
  - applying the recursive algorithm on each of the object oriented code objects in the dependency graph to incorporate dependencies of implementations of code objects in the database; and
  - repeating steps 1 and 2 for incorporating dependencies of implementation of object oriented code objects until new dependencies are not added to the dependency graph.
- Claim 23. (Previously Amended) The method of claim 22 further comprising using the generated dependency information in the direct dependency graph to identify calling paths in a database code coverage tool.
- Claim 24. (Previously Amended) The method of claim 22 further comprising using the generated dependency information in the direct dependency graph to identify calling paths in a database code object profiling tool.

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- Claim 25. (Previously Amended) The method of claim 22 further comprising using the generated dependency information in the direct dependency graph in a database code object testing tool.
- Claim 26. (Previously Amended) The method of claim 22 further comprising using the generated dependency information in the direct dependency graph to identify dependent objects that are INVALID in the database.
- Claim 27 (Currently Amended) A system for identifying dependencies; if any, of a target data base code object, the system comprising:
- a digital computer;
  - a database service coupled to the computer;
  - a data base coupled to the database server having data stored therein, the data including object oriented code objects, specifications of packages, implementations of packages, specifications of types, implementations of types and triggers; and
  - a code mechanism for querying a database for dependency information and generating a dependency graph, the dependency graph being a data structure and having entries to contain representations of depending code objects, specifications of packages, implementations of types, triggers and dependencies of triggers which are relevant to the target data base code object.
- Claim 28. (Previously Amended) A method for generating dependencies of a target data base code object, using a computer having a processor, memory, display, input/output devices, the method of comprising:
- providing a database coupled to the computer having data stored therein, the data including representations of object oriented code objects, specifications of packages, implementations of packages, specifications of types, implementations of types and triggers; and
  - using a recursive code mechanism for querying a database for dependency information and generating a dependency graph, the dependency graph being a

C) data structure and having entries to contain representations of dependent code objects, specifications of packages, implementations of packages, specifications of types, implementations of types, triggers and dependencies of triggers which are relevant to the target data base code object.

Claim 29. (Currently Amended) A computer program product embedded on a computer readable medium for use in debugging a target data base code object comprising:

a recursive code mechanism for querying a database for dependency information and generating a dependency graph of the target data base code object, the dependency graph being a data structure and having entries to contain representations of depending code objects, specifications of packages, implementations of packages, triggers and dependencies of triggers which are relevant to the target data base code object; and

a program code mechanism for using the dependency graph to debug the target

Claim 30 (Canceled).

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